**SIEMENS AG**
Medical Solutions

**ÜBERSICHTSBLATT**
zum Schaltplan

Erzeugnis: **LITHOSTAR MODULARIS - / 140 / Vario**
**Sachnummer: 55 31 103 / 11 59 107 / 11 58 059**

Typ-Nr. **J 1048**

| Sach-Nr. / Typ-Nr. | Index | A | B | C | D |
|---|---|---|---|---|---|
| | Rev | 01 | 01 | 01 | 01 |
| | Bl.-Nr | U-Stand bzw. Ausführungs-Nr. | | | |
| | 01A | 000 | 001 | 02 | 03 |
| | 1 | 1 | 2 | 2 | 3 |
| | 10 | 1 | 2 | 3 | 4 |
| | 11 | 1 | 2 | 3 | 4 |
| | 12 | 1 | 2 | 2 | 3 |
| | 13 | 1 | 2 | 3 | 4 |
| | 14 | 1 | 2 | 2 | 3 |
| | 15 | 1 | 2 | 2 | 3 |
| | 16 | 1 | 2 | 3 | 4 |
| | 17 | - | 1 | 2 | 3 |
| | 18 | - | - | - | 1 |
| | 19 | 1 | 2 | 2 | 2 |
| | 20 | 1 | 1 | 1 | 2 |
| | 25 | 1 | 2 | 3 | 3 |
| | 26 | 1 | 2 | 2 | 3 |
| | 100 | 1 | 2 | 3 | 4 |

| Änd.-Mittlg.-Nr. | Datum | Ersteller Abtlg. |
|---|---|---|
| 108524 | 15.07.03 | Rohwedder SPEU 1 |

Druck-Nr.
**J 1048 - A 55 31 103 01**
Typ-Nr. Index Sach-Nr. Rev

Druck-Nr.
**J 1048 - B 55 31 103 01**
Typ-Nr. Index Sach-Nr. Rev

Druck-Nr.
**J 1048 - C 55 31 103 01**
Typ-Nr. Index Sach-Nr. Rev

Druck-Nr.: **SPL1-130.844.04.01.05**

**J 1048 - D 55 31 103 01**
Typ-Nr. Index Sach-Nr. Rev

Datum: 28.07.03 Abtlg.: SPE U1

Geprüft:

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| Sachnummer | U-Art | Index | U-Stand | Typennummer |
|---|---|---|---|---|
| 55 31 103 | EFS | -01A | -03- | J 1048 |

| Ersatz für: | ----- | Blatt 01A |
|---|---|---|

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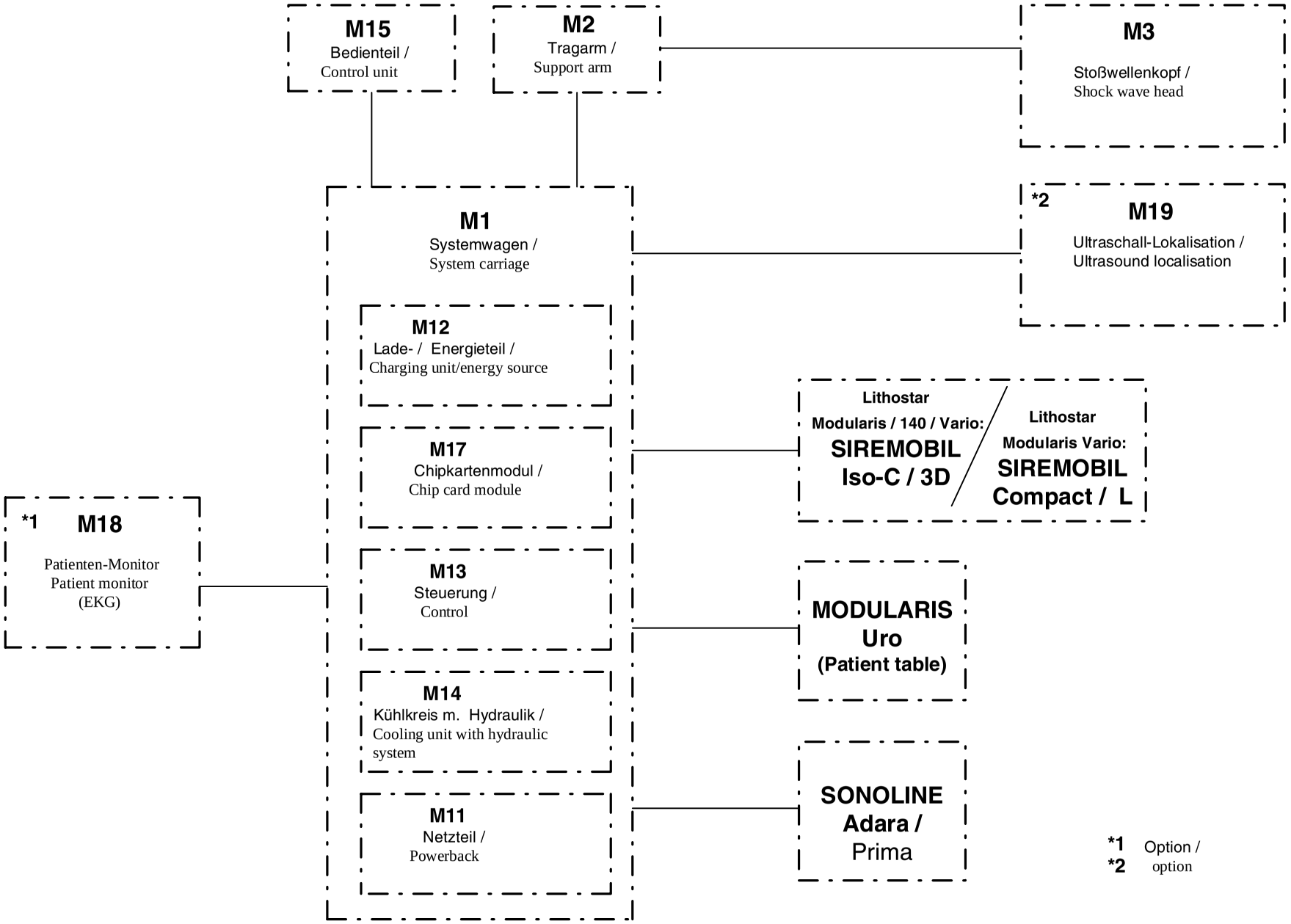
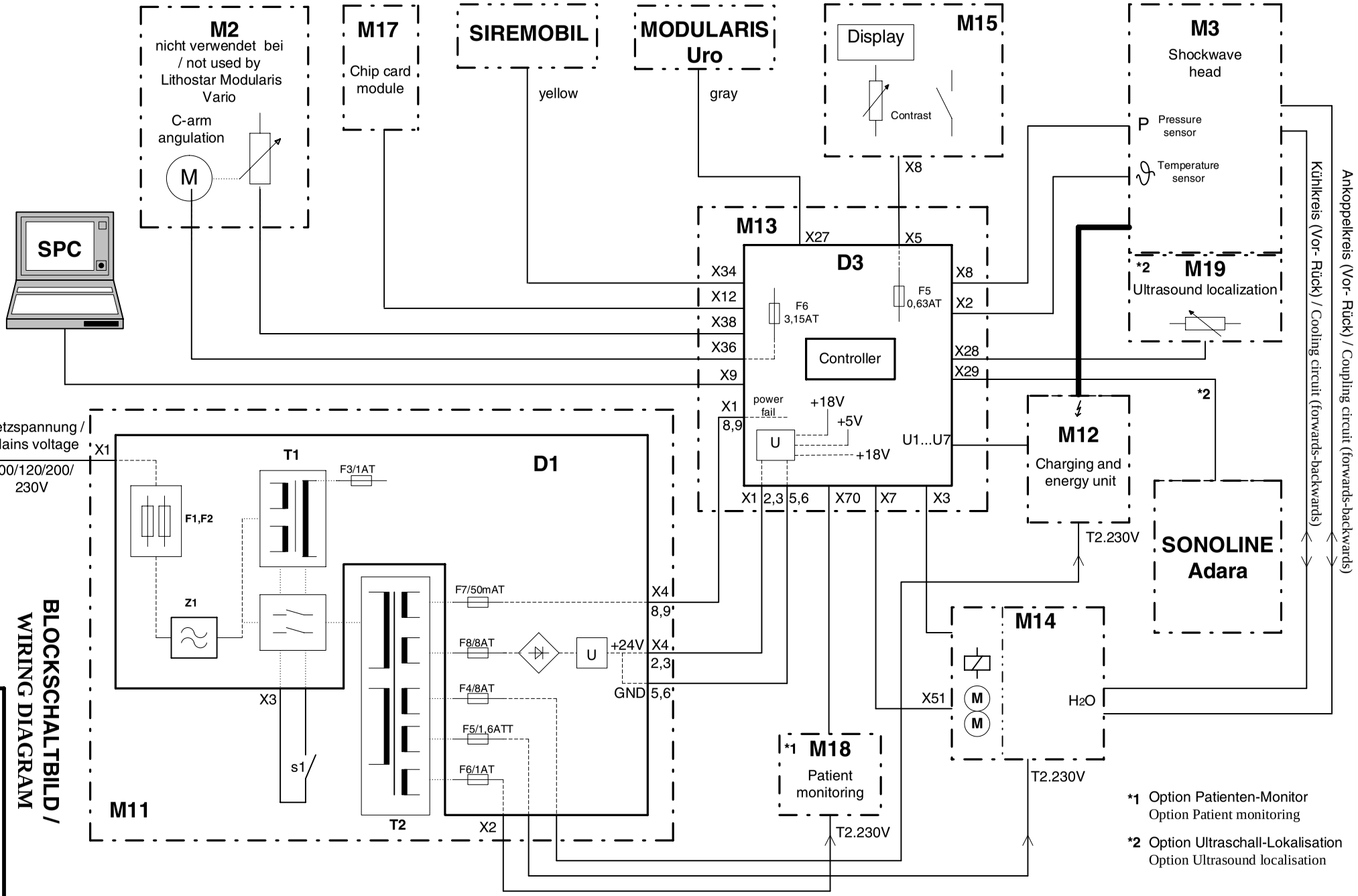
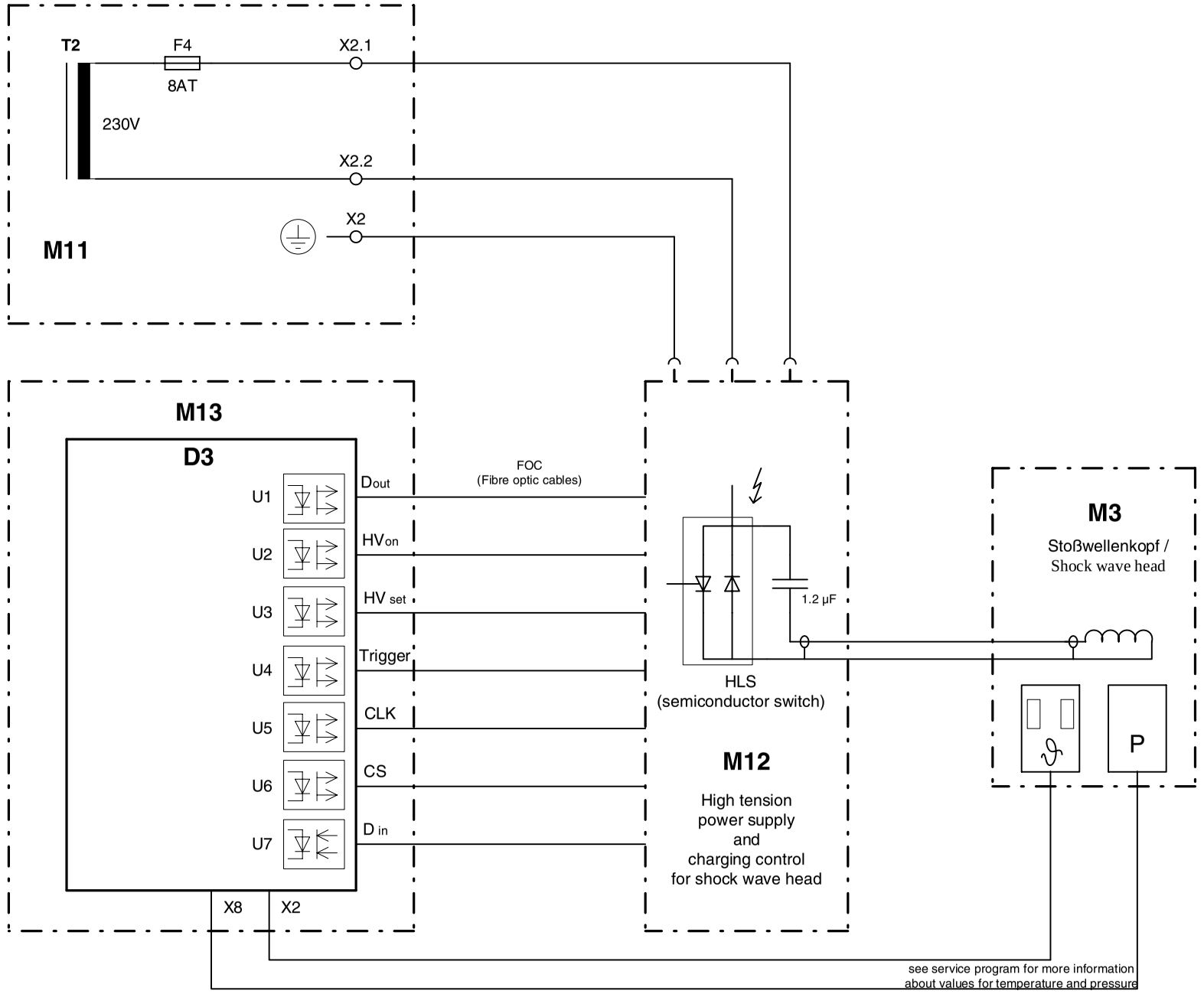


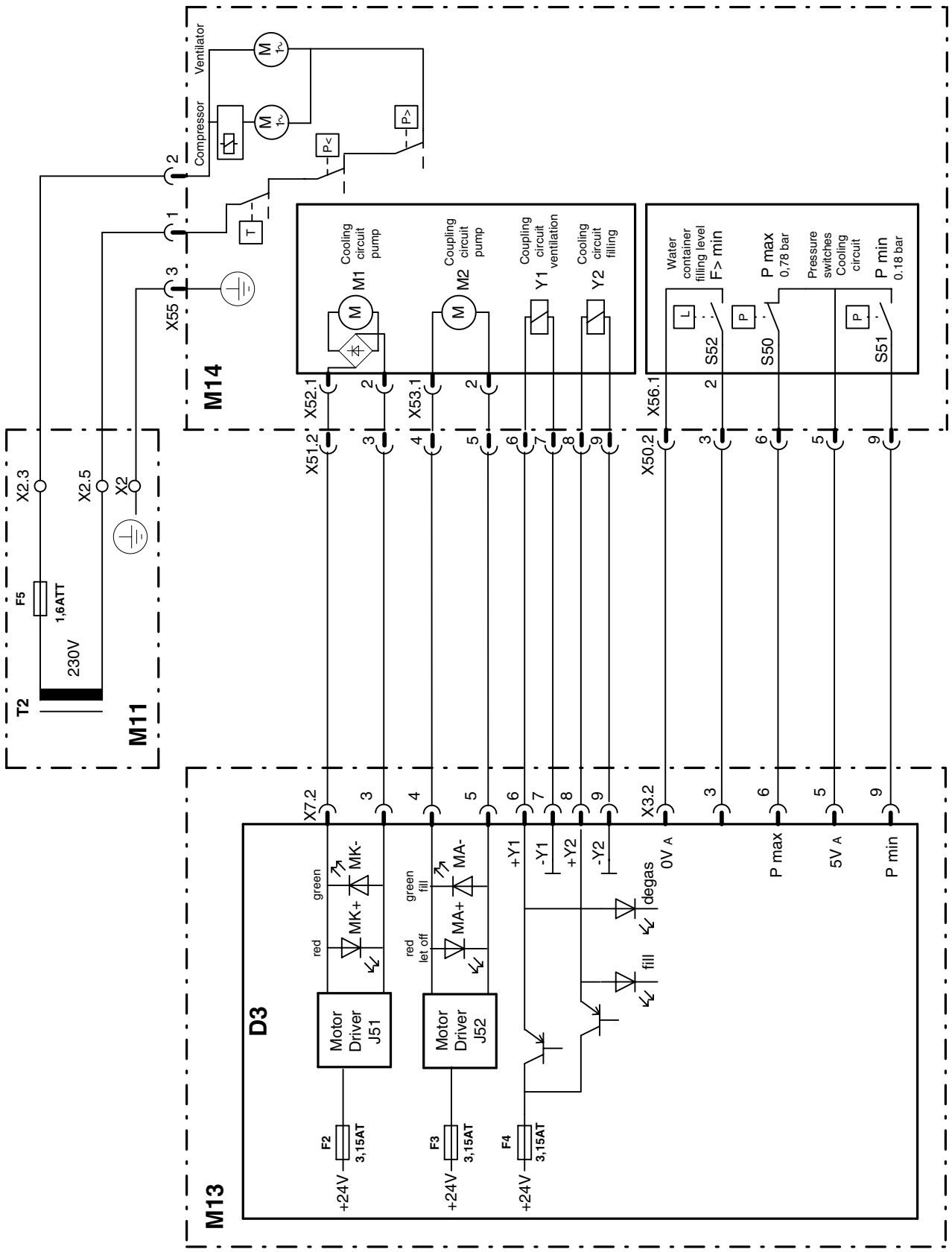

ANLAGEN - KOMPONENTEN /
SYSTEM COMPONENTS


M2
nicht verwendet bei / not used by Lithostar Modularis Vario
C-arm angulation
M
M17
Chip card module
SIREMOBIL
yellow
MODULARIS Uro
gray
M15
Display
Contrast
X8
M3
Shockwave head
P Pressure sensor
Temperature sensor
SPC
M13
X27
X5
D3
X34
X12
X38
X36
X9
X1
F6 3,15AT
F5 0,63AT
Controller
power fail
+18V
+5V
+18V
U
U1...U7
X8
X2
X28
X29
*2 M19
Ultrasound localization
Kühlkreis (Vor- Rück) / Cooling circuit (forwards-backwards)
Ankoppelkreis (Vor- Rück) / Coupling circuit (forwards-backwards)
M12
Charging and energy unit
T2.230V
SONOLINE Adara
Netzspannung / Mains voltage
100/120/200/ 230V
X1
T1
F3/1AT
D1
F1,F2
Z1
F7/50mAT
F8/8AT
F4/8AT
F5/1,6ATT
F6/1AT
U
+24V
GND
X4
8,9
2,3
5,6
X3
s1
T2
X2
M11
X1 2,3 5,6 X70 X7 X3
M14
X51
M
M
H2O
T2.230V
*1 M18
Patient monitoring
T2.230V
*1 Option Patienten-Monitor
Option Patient monitoring
*2 Option Ultraschall-Lokalisation
Option Ultrasound localisation
BLOCKSCHALTBILD / WIRING DIAGRAM
J 1048 - 11 - 4

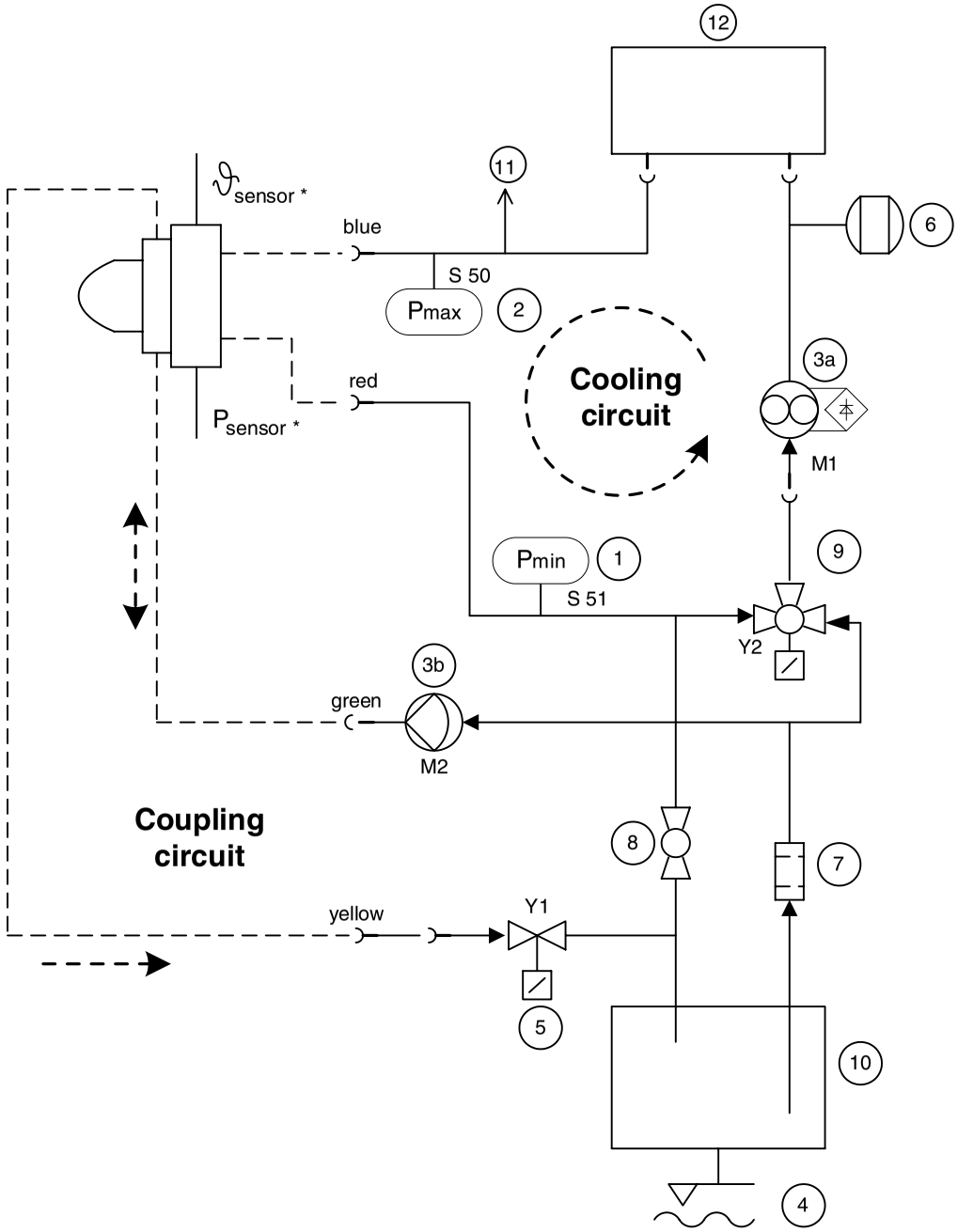



LADE- / ENERGIETEIL /
CHARGING UNIT / ENERGY SOURCE

J 1048 - 12 - 3




**KÜHLAGGREGAT M. HYDRAULIK (elektr.) /**
**COOLING UNIT WITH HYDRAULIC SYSTEM (electr.)**

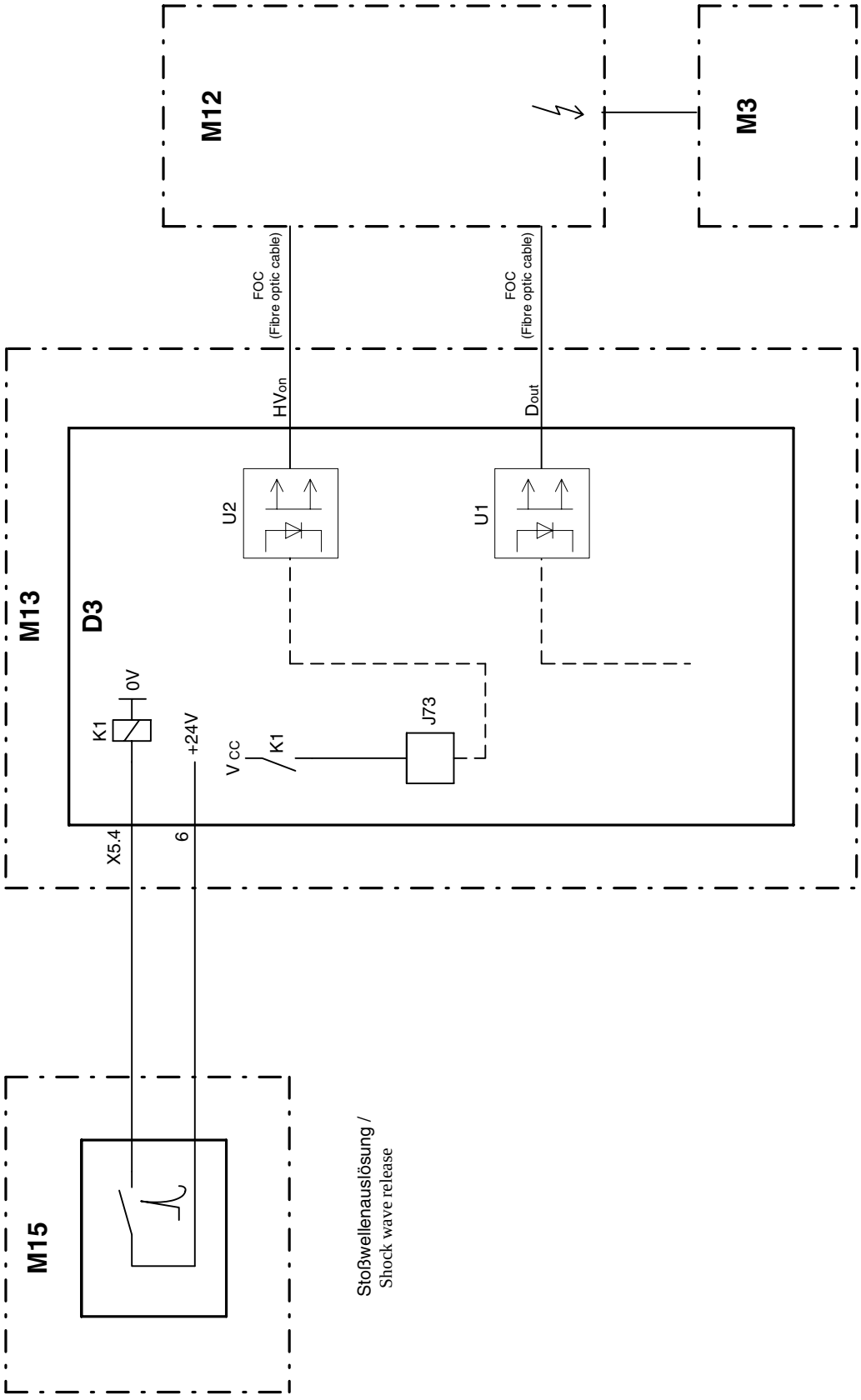



**Bezeichnung / Designation**

1 Druckschalter (P min) / Pressure switch (P min)
2 Druckschalter (P max)/Pressure switch (P max)
3a Zahnradpumpe / gear pump (Cooling circuit)
3b Schlauchpumpe / peristaltic pump (Coupling circuit)
4 Schwimmerschalter / Float switch
5 Magnetventil 2/2 / Solenoid valve (degas)
6 Druckausgleichsbehälter / Surge tank
7 Wasserfilter / Water filter
8 2/2 Kugelhahnventil / Ball valve (empty) - operating by hand
9 3/2 Magnetventil / Solenoid valve ( fill)
10 Wasserbehälter / Water tank
11 Entlüftungsventil / Venting valve
12 Kühlgerät / Cooling unit

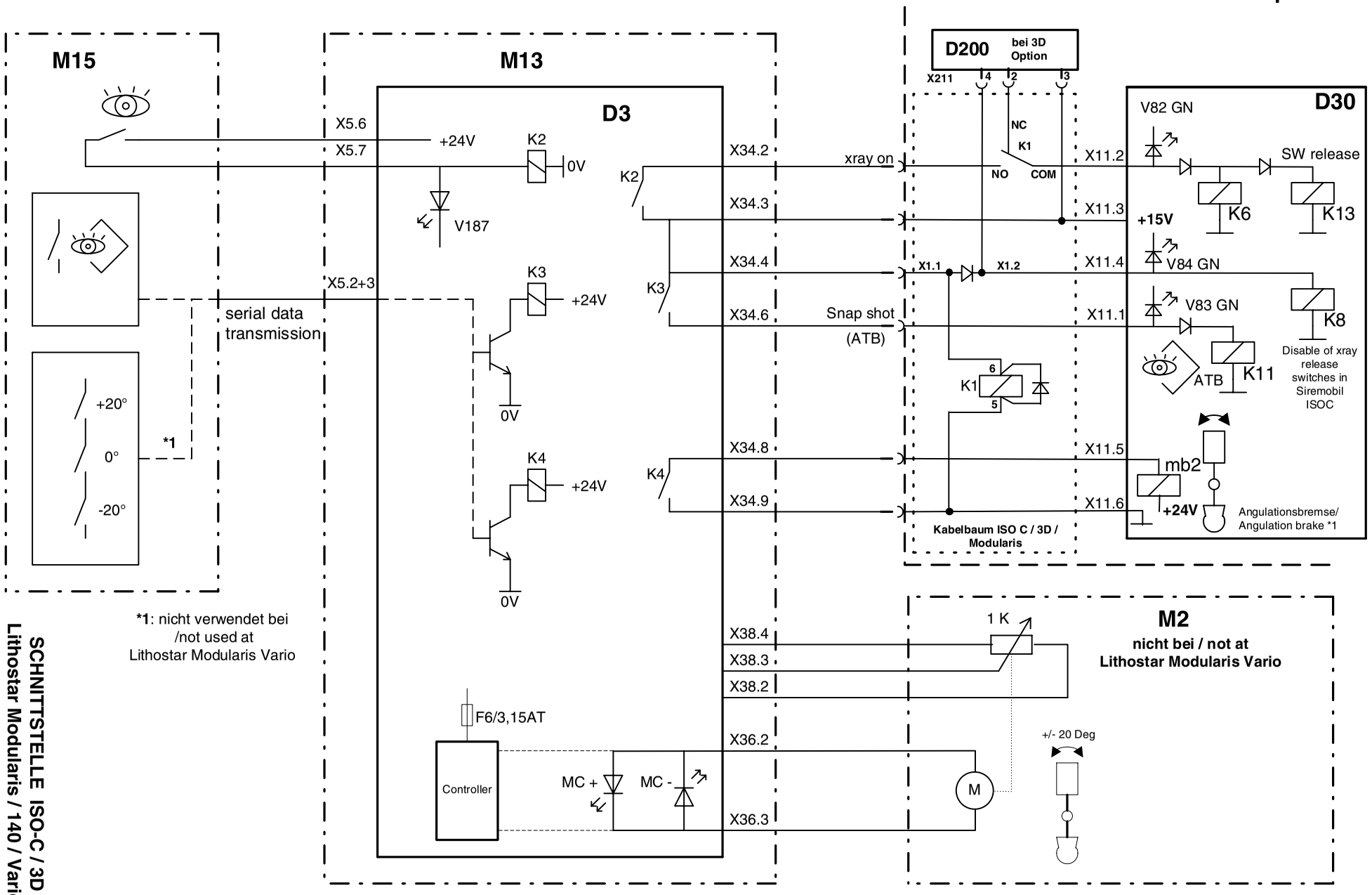
* Werte siehe Serviceprogramm / Values see Service program

**KÜHLGERÄT MIT HYDRAULIK /**
**COOLING UNIT WITH HYDRAULIC SYSTEM**



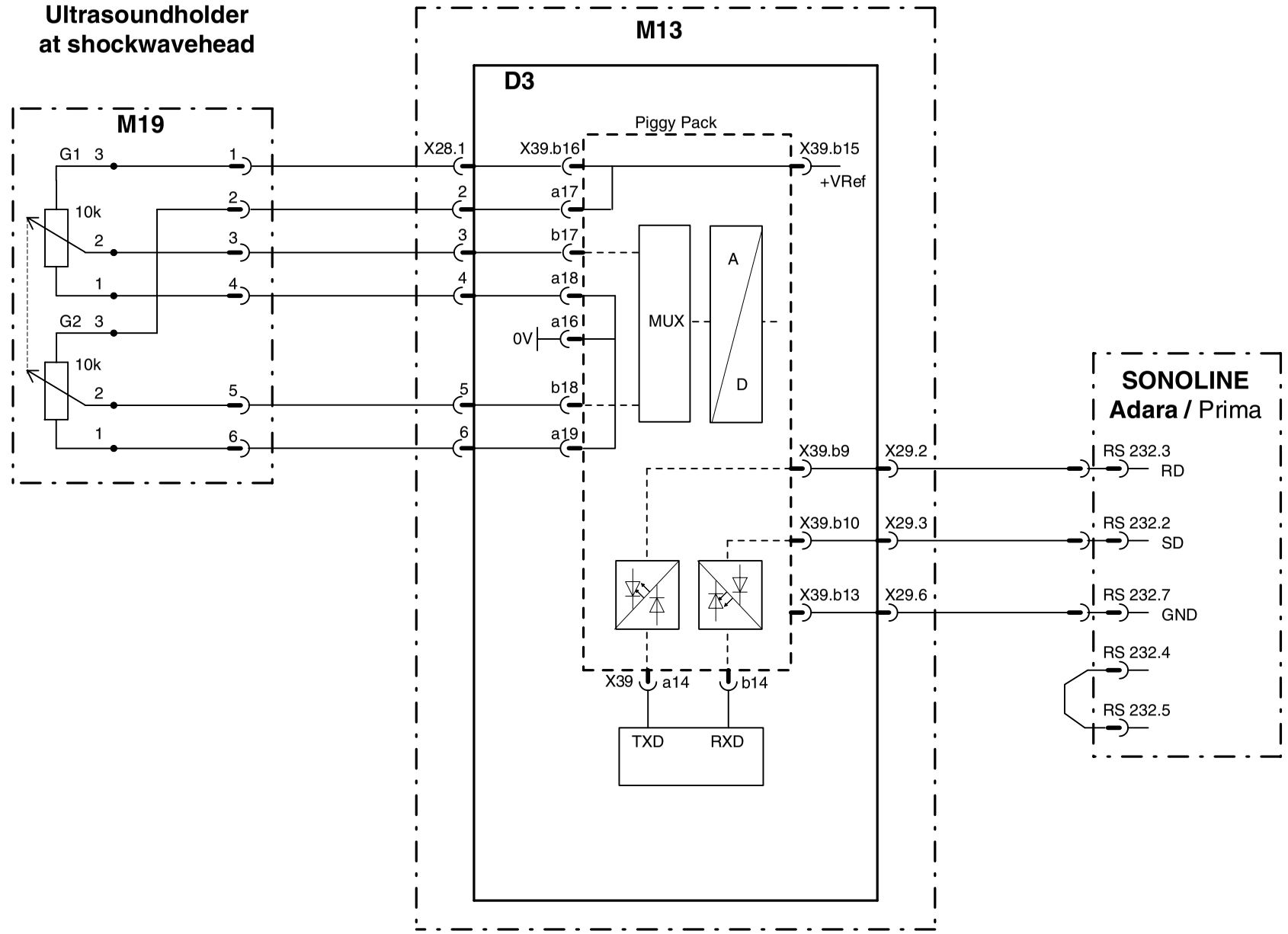

**DRUCKPULSAUSLÖSUNG /**
**PRESSURE PULSE RELEASE**

# N11 SIREMOBIL ISO-C / 3D Option



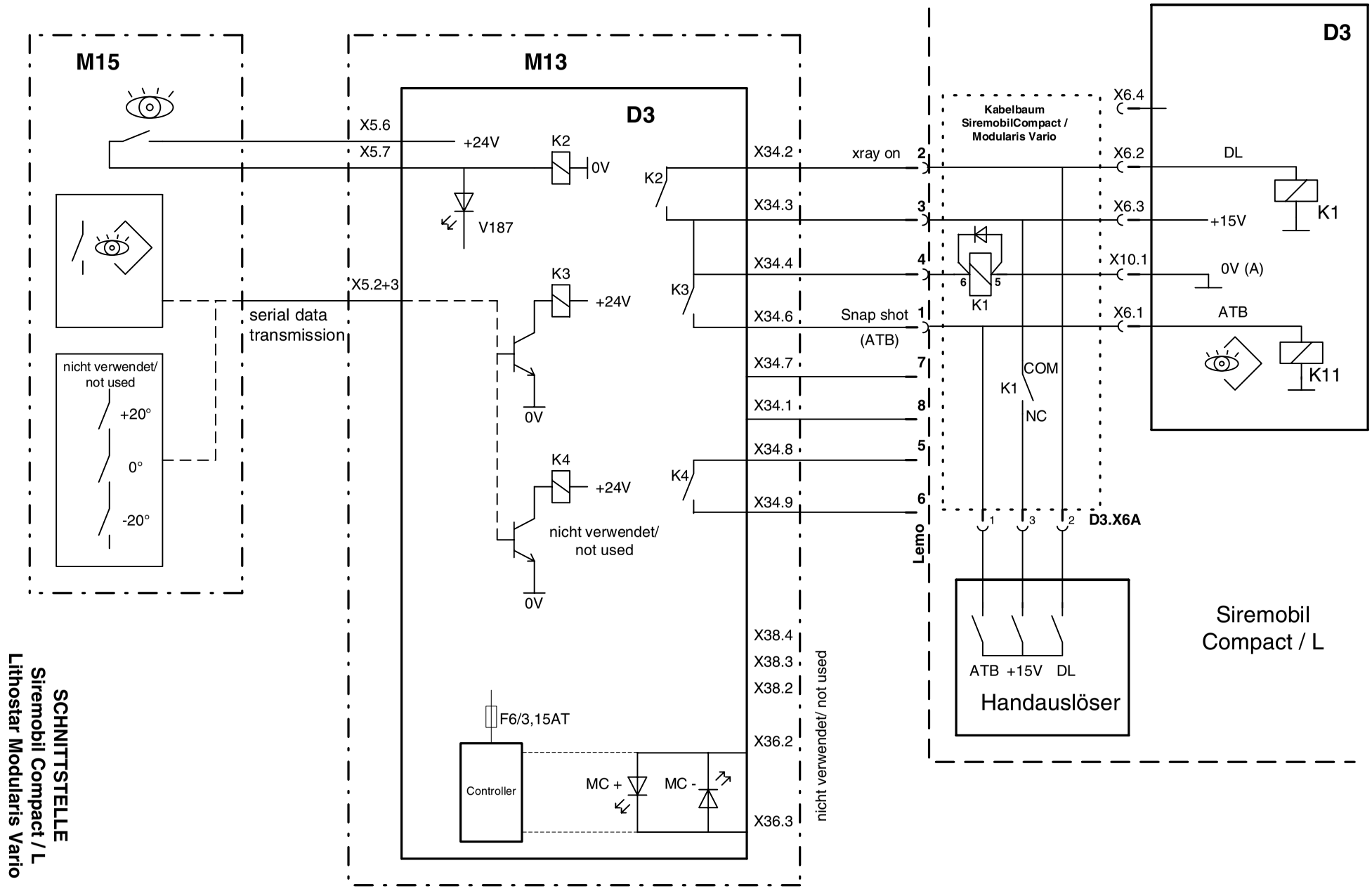

*1: nicht verwendet bei /not used at Lithostar Modularis Vario

SCHNITTSTELLE ISO-C / 3D
Lithostar Modularis / 140 / Vario
ISO-C interface



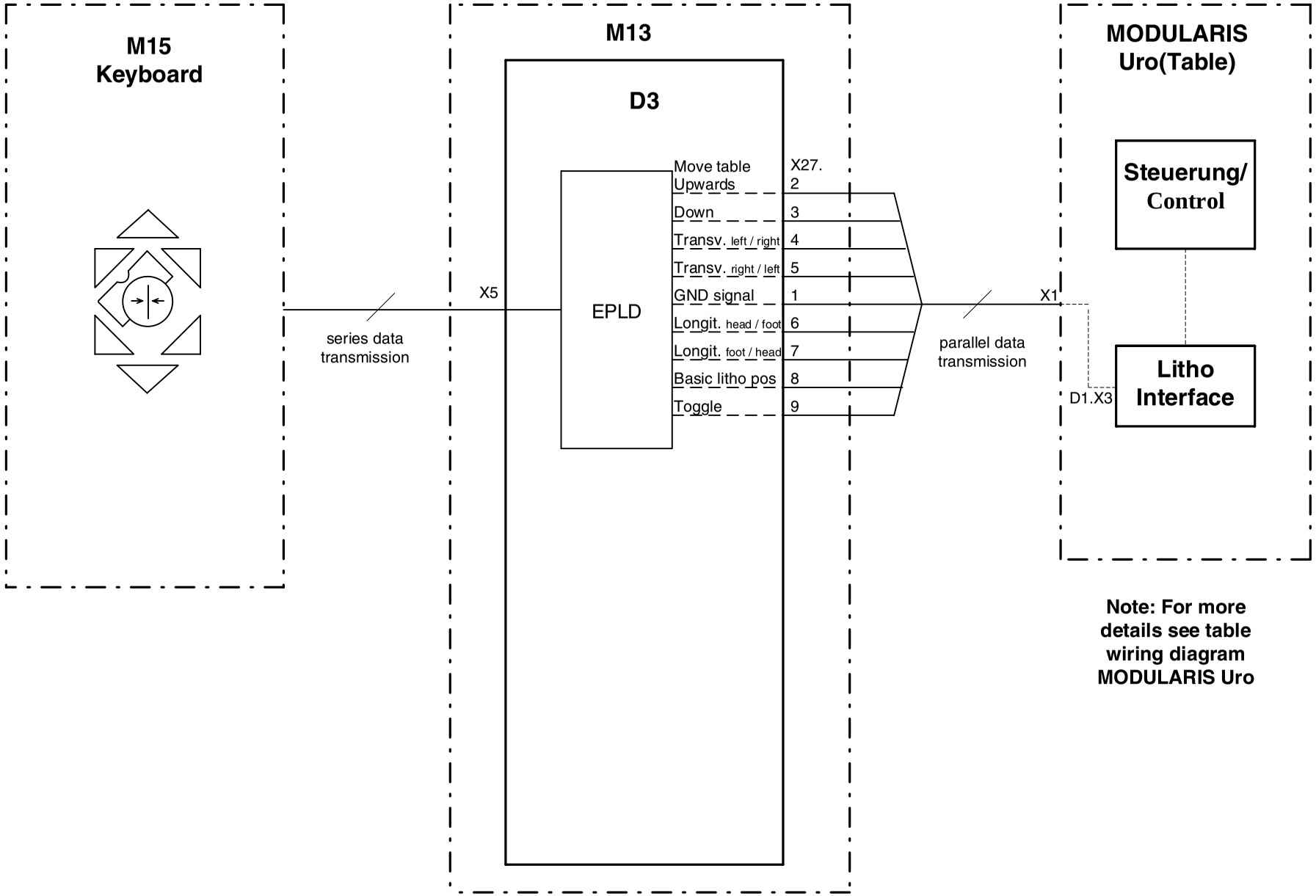

Ultraschall-Lokalisation /
Ulrasound localisation

J 1048 - 17 - 3



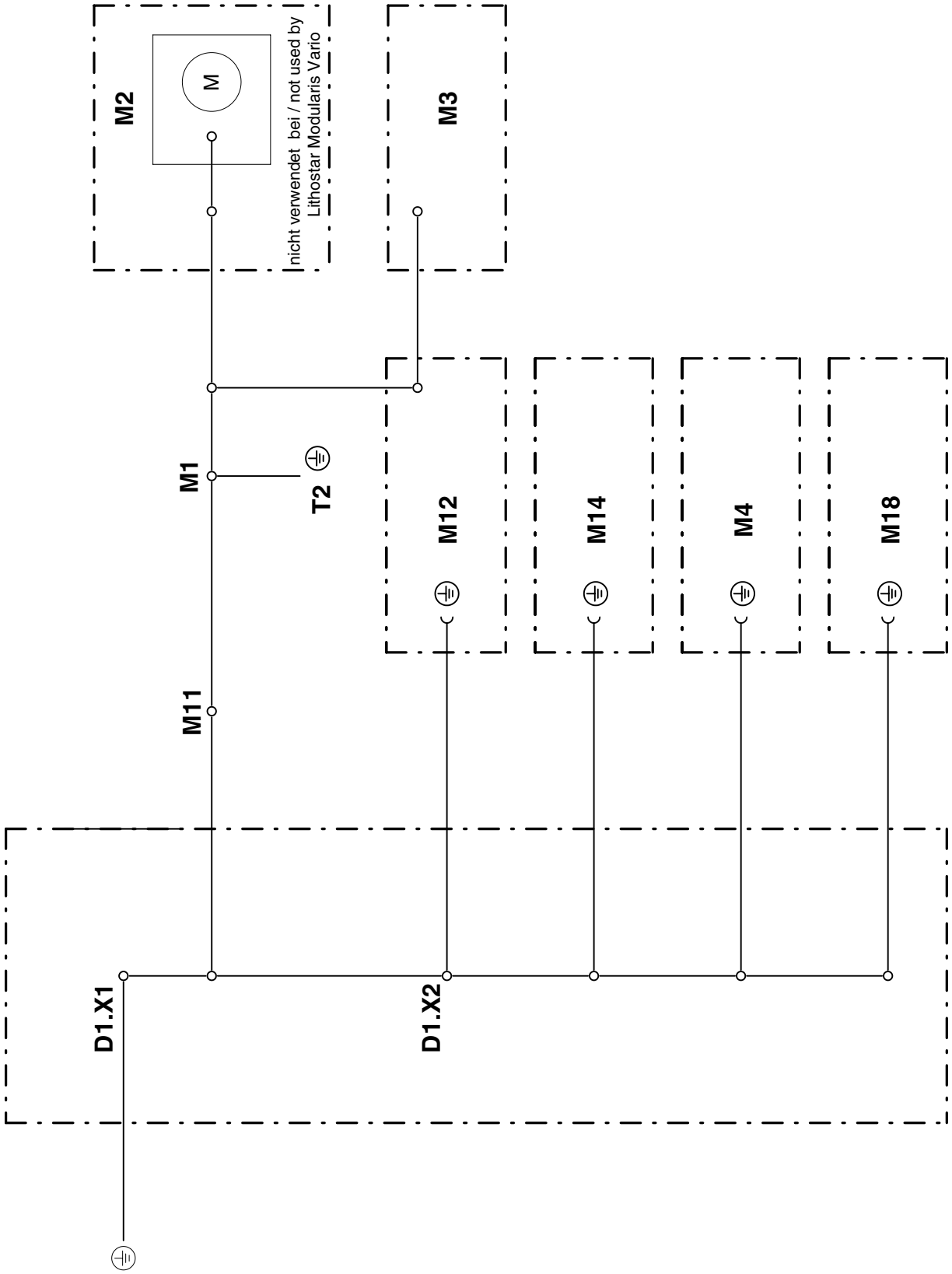

**SCHNITTSTELLE**
**Siremobil Compact / L**
**Lithostar Modularis Vario**

**J 1048 - 18 - 1**

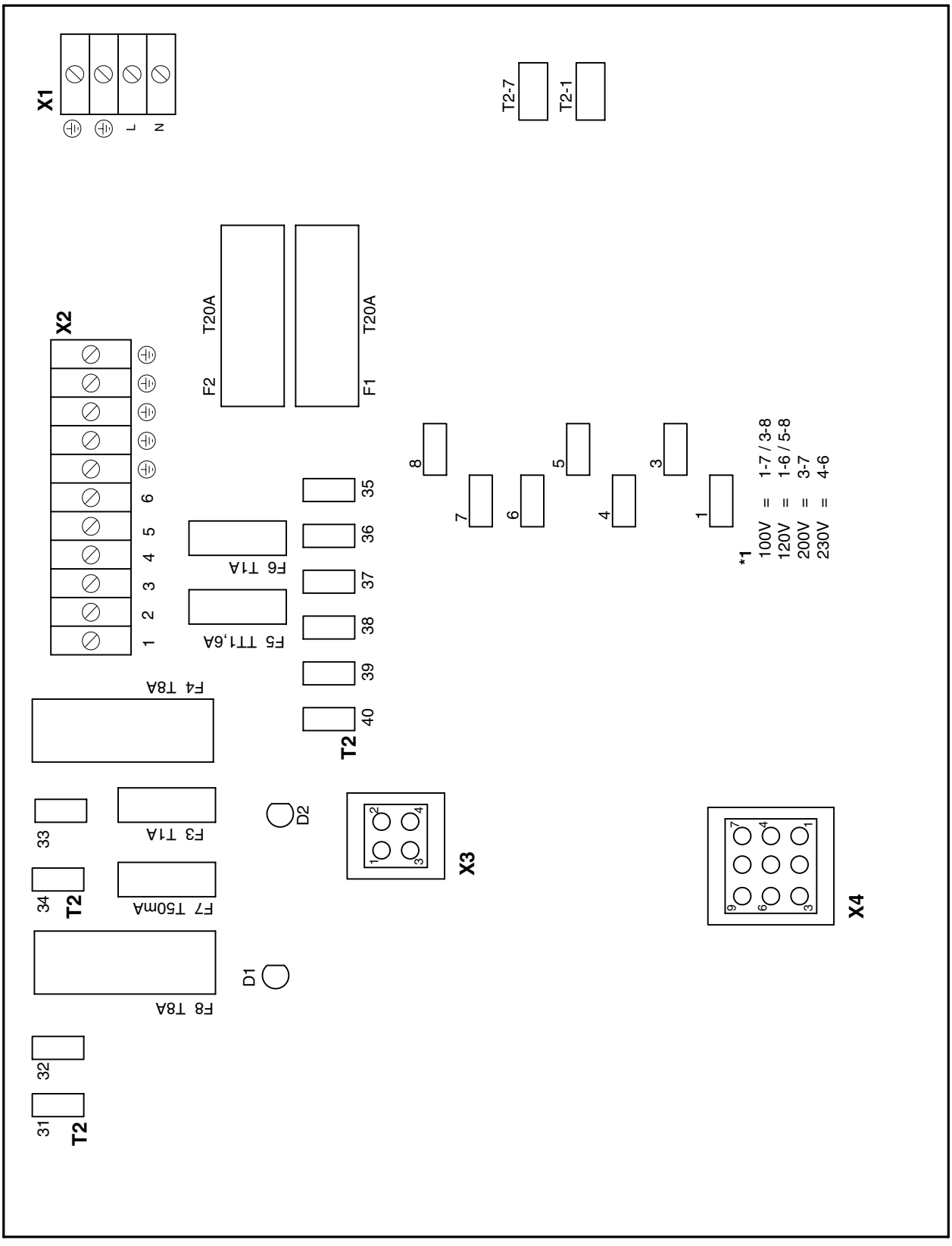



Schnittstelle Tisch /
Table interface

J 1048 - 19 - 2




**Schutzleitersystem /**
**Protective ground wire system**



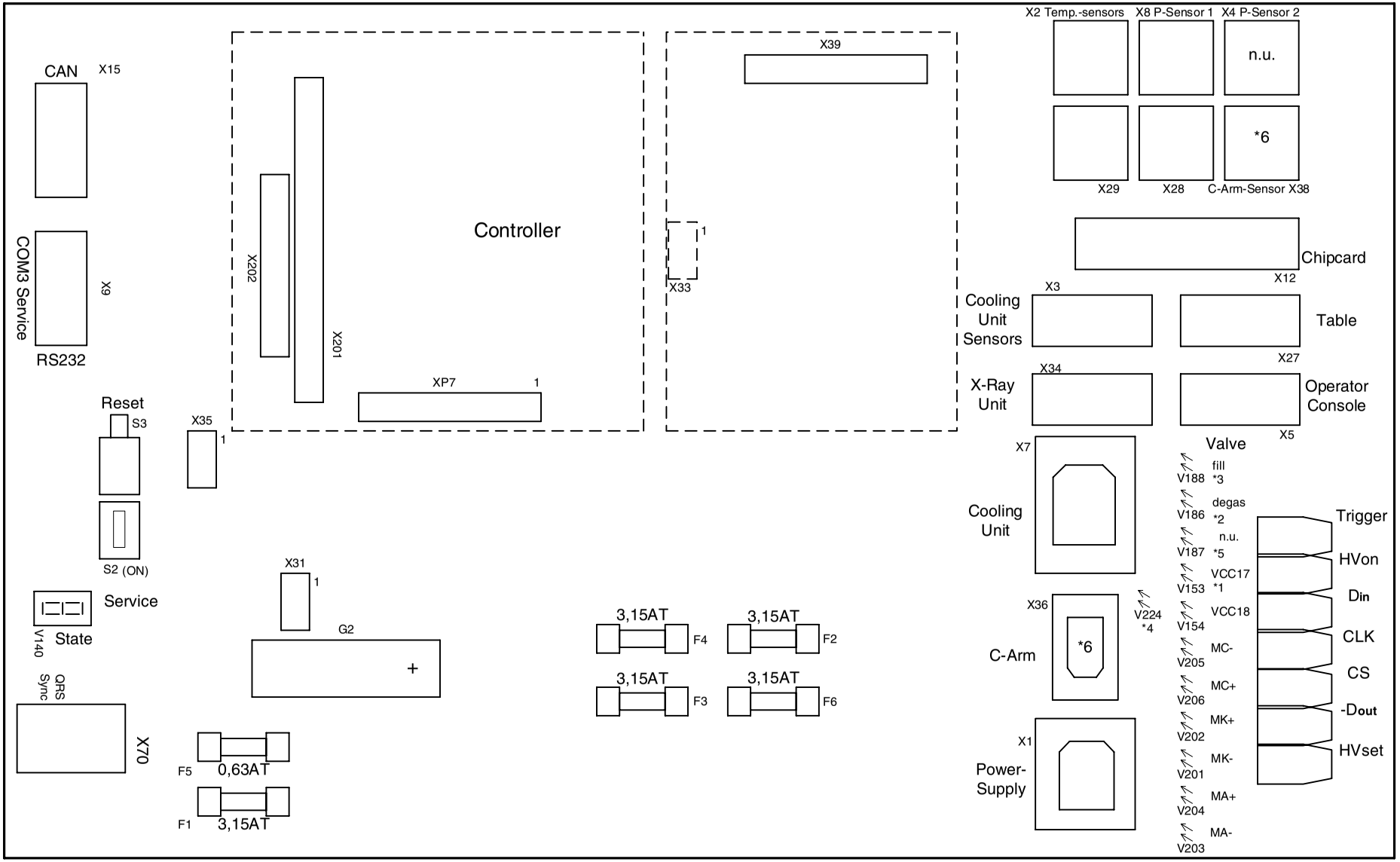

LED D1 ON = +24V

LED D2 ON = Spannung Einschaltkreis / Voltage startup circuit

***1** Brücken / Jumper

**D1 EINSCHALTKREIS /**
**D1 STARTUP CIRCUIT**

# D3 STEUERUNG / D3 CONTROL




F1 Spannungen FBG / Remote control voltages
F2 Pumpe Kühlkreis / Cooling circuit pump
F3 Pumpe Ankoppelkreis / Coupling circuit pump
F4 Ventile + Chipkarte / Valves+chip card
F5 Bedienteil / Operating panel
F6 Motor C-arm Angulation / Motorized C-arm angulation

*1 VCC17 +18V intern / +18V internal
VCC18 +18V P-Sensor / +18V P sensor
*2 Ankoppelkreis entlüften / Vent coupling circuit (Ventil aktiv) / (Valve active)
*3 Kühlkreis füllen / Fill cooling circuit (Ventil aktiv) / (Valve active)
*4 12 V Chipkarte / 12 V Chipcard
*5 X-ray on
*6 nicht verwendet bei / not used by Lithostar Vario

Erzeugnis:
Product:

# LITHOSTAR MODULARIS

| Baugruppe / Assembly group | | Schaltungsunterlage / circuit diagram **J 1048** | | | |
|---|---|---|---|---|---|
| | Index Rev. | **A 01** | **B 01** | **C 01** | **D 01** |
| D1 | 55 31 301 J1048 | X | X | X | X |
| M13 (D3) | 55 31 053 J1048 | X | X | X | X |
| Chipkartenmodul | 55 31 319 J1048 | X | X | X | X |
| Netzteil | 55 31 111 J1048 | X | X | X | X |
| Kühlgerät | 47 78 002 J1050 | X | X | X | X |
| Lade- / Energieteil FKS | 55 31 046 J1048 | X | X | X | ◯ |
| HLS | 11 58 000 J1048 | | | | X |
| D3-Zusatz | 55 31 723 J1048 | | X | X | X |

X = Liefereinsatz / beginning of delivery

◯ = Nachträglicher Einbau möglich / subsequent installation possible

● = Kombination unzulässg / Combination illegal

KOMPATIBILITÄTSLISTE
COMPATIBILITY LIST